

BIOHACK NOTES



# ENVIRONMENTAL ISSUES

- BASED ON ACTIVE RECALL AND SPACED REPETITION
- TARGET 360/360 IN NEET BIOLOGY & 100/100 IN BOARDS!



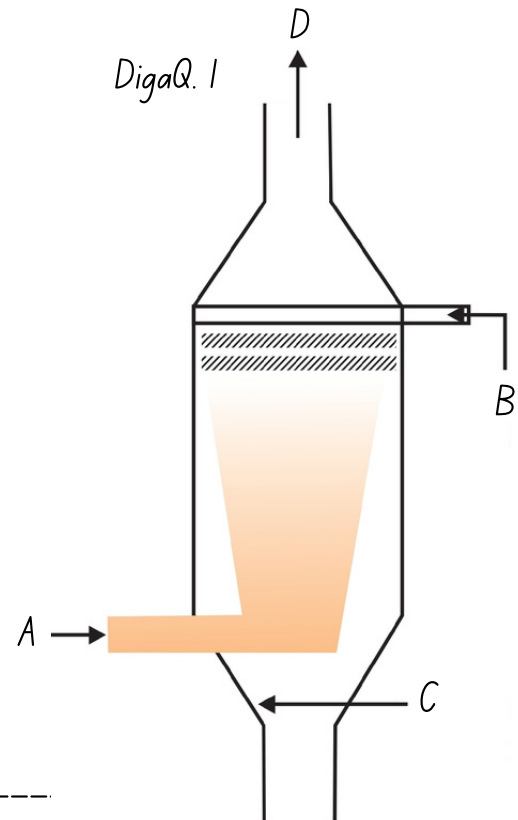
**PARTH** GOYAL





## • AIR POLLUTION & ITS CONTROL

1. Gov. of India passed Environment act in year \_\_\_\_\_
2. Discharge corona in an electrostatic precipitator is negatively/positively charged.
3. Electrostatic precipitator remove particulate/gaseous pollution. (NEET)
4. Most widely used way to remove particulate matter is by using \_\_\_\_\_ (NEET)
5. It removes over \_\_\_ % of particulate matter. (NEET)
6. Scrubber removes gas ex - (I) (NEET)
7. CPCB full form - (NEET)
8. Particulate size \_\_\_ micrometer or less in diameter are causing the greatest harm. (NEET)
9. Lead free petrol reduce pollution. T/F
10. Catalytic converters have \_\_\_\_\_-\_\_\_\_\_ and \_\_\_\_\_ as the catalyst. (NEET)
11. Unburnt hydrocarbons are converted into \_\_\_\_\_ and \_\_\_\_\_ through the catalytic converter. (NEET)
12. CO and NO are converted to \_\_\_\_\_ and \_\_\_\_\_ by catalytic converter.
13. Lead in petrol activates the catalyst. T/F
14. Air act included noise as an air pollution. T/F
15. Air act came into force in year \_\_\_\_\_, but was amended in year \_\_\_\_\_.
16. PIL full form -
17. CNG full form - (NEET)
18. More stringent norms means steadily reducing \_\_\_\_\_ and \_\_\_\_\_ content of fuels.
19. Euro III norms said sulphur be controlled at \_\_\_\_\_ ppm in diesel and \_\_\_\_\_ ppm in petrol.
20. Aromatic hydrocarbon are to be contained at \_\_\_\_\_ % of the concerned fuel.
21. Goal is to reduce sulphur to \_\_\_\_\_ ppm in petrol and diesel and bring down the level to \_\_\_\_\_ %.
22. Bharat Stage IV is implemented throughout the country since \_\_\_\_\_ (month/year).



## • WATER POLLUTION AND ITS CONTROL

23. Water Act was passed in year \_\_\_\_\_ (NEET)
24. Bacteria is an example of colloidal impurity. T/F
25. Ex. of suspended solids - (3)
26. A mere \_\_\_ % of impurity make domestic sewage unfair for human use.



**PARTH GOYAL**

27. Plankton means -

28. \_\_\_\_\_ cause deterioration of water quality and fish mortality.

29. Some bloom-forming algae are extremely toxic to human beings and animals. T/F

30. \_\_\_\_\_ is the world's most problematic aquatic weed.

31. Terror of Bengal is name given to -

32. Heavy metals definition -

33. Copper is a heavy metal. T/F

34. \_\_\_\_\_ refers to increase in concentration of the toxicant at successive trophic levels. (NEET)

35. Biomagnification occurs with pollutants \_\_\_\_\_ and \_\_\_\_\_.

36. High DDT disturbs \_\_\_\_\_ metabolism in birds.

37. Disturbed calcium metabolism causes \_\_\_\_\_, which cause decline of bird population.

38. What is Eutrophication ? (NEET)

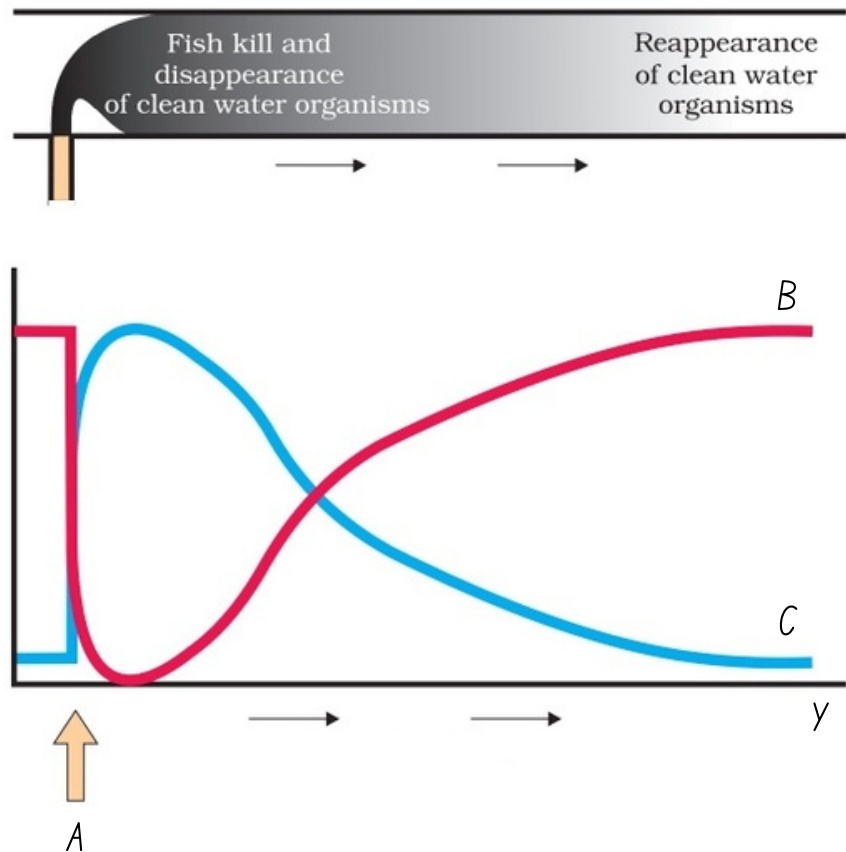
39. Thermal waste water may enhance growth of plants and fishes. T/F

40. FOAM full form -

41. In Arcata, over \_\_\_\_ (no.) hectares of marshland was made with collaboration with scientists of \_\_\_\_\_ State University.

42. Ecosan toilets are present in \_\_\_\_\_ and \_\_\_\_\_ (places).

DigaQ. 2



## • SOLID WASTE

43. All solid waste can be categorised into 3 types. Name them.

44. \_\_\_\_\_ is the only solution for the treatment of e-waste.

45. \_\_\_\_\_ (name) of age \_\_\_\_, of city \_\_\_\_\_ invented polyblend.

46. Polyblend and bitumen increase the road life by a factor of \_\_\_\_

47. Khan offers rag pickers \_\_\_\_ rs per kg now instead of \_\_\_\_ rs as it was earlier.

48. \_\_\_\_\_ and \_\_\_\_\_ are the examples of accidental leakage of radioactive material.

49. Radioactive waste should be kept \_\_\_\_ m deep.



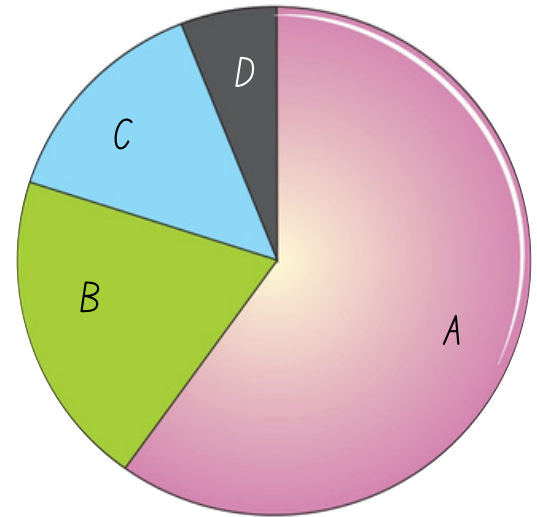
**PARTH GOYAL**



## • GHG EFFECT & GLOBAL WARMING

50. GHG effect is a naturally occurring phenomenon. T/F
51. GHG absorb long/short wavelength waves from earth.
52. Without GHG effect, average temp of earth would be \_\_\_\_\_ rather than present \_\_\_\_\_
53. Arrange CFC, CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> in order of their contribution in global warming. (NEET)
54. El Nino effect occurs due to rise in temperature. T/F
55. Ozone thickness is given in \_\_\_\_\_ unit.
56. Ozone hole over Antarctica develop each year between early/late July/August and early/late Oct/Nov.
57. "Bad" ozone forms in the stratosphere/troposphere. (NEET)
58. Good ozone is formed in \_\_\_\_\_ layer.
59. Ozone absorbs \_\_\_\_\_ from the sun.
60. Ozone is degraded nowadays by pollutant - (NEET)
61. UV rays act on CFC and release -
62. Ozone depletion is most seen in \_\_\_\_\_ region of the world.
63. Wavelength shorter than \_\_\_\_\_ are completely absorbed by earth atmosphere.
64. In human eye, \_\_\_\_\_ absorbs UV-B.
65. Snow blindness is a disease of \_\_\_\_\_ is caused due to - (NEET)
66. \_\_\_\_\_, was signed at Canada/Japan in year \_\_\_\_\_ to control emission of Ozone depleting substance. (NEET)
67. Montreal protocol was effective in year \_\_\_\_\_
68. \_\_\_\_\_ and \_\_\_\_\_ are some of the problems that have come in the wake of the Green Revolution.
69. About \_\_\_\_ % of forest has been lost in tropics, while \_\_\_\_ % in temperate region.
70. National Forest Policy was given in year \_\_\_\_\_
71. It recommended \_\_\_\_ % of forest cover for plains and \_\_\_\_ % for the hills. (NEET)
72. Slash and burn agriculture is commonly called \_\_\_\_\_ agriculture. (NEET)
73. Jhum cultivation is seen in north-west/north-east states of India.
74. Which award GOI gives to people who show extraordinary courage to protect wildlife ?
75. Amrita Devi story occurred in year \_\_\_\_\_
76. The \_\_\_\_\_ community is known for its peaceful coexistence with nature.
77. Chipko movement is of \_\_\_\_\_ (place). (NEET)
78. Chipko movement occurred in year \_\_\_\_\_ (NEET)
79. JFM full form - (NEET)
80. JFM was introduced in decade - \_\_\_\_\_s and year \_\_\_\_\_. (NEET)

DigaQ. 3



# ENVIRONMENTAL ISSUES



**PARTH** GOYAL



# ANSWERS

## • AIR POLLUTION & ITS CONTROL

1. 1986
2. Negatively
3. Particulate
4. Electrostatic precipitator
5. 99
6.  $\text{SO}_2$
7. Central Pollution Control Board
8. 2.5
9. T
10. Platinum-palladium, rhodium
11.  $\text{CO}_2$ ,  $\text{H}_2\text{O}$
12.  $\text{CO}_2$ ,  $\text{N}_2$
13. F
14. T
15. 1981, 1987
16. Public Litigation Interest
17. Compressed Natural Gas
18. Sulphur and aromatic
19. 350 ppm diesel, 150 ppm petrol
20. 42%
21. 350, 35
22. 2017

## • WATER POLLUTION & CONTROL

23. 1974
24. T
25. Sand, silt and clay
26. 0.1
27. free-floating
28. Algal bloom
29. T
30. Water hyacinth (*Eichhornia crassipes*)
31. Water hyacinth (*Eichhornia crassipes*)
32. Elements with density  $> 5 \text{ g/cm}^2$
33. T
34. Biomagnification

35. Mercury and DDT
36. Calcium
37. Thinning of eggshell
38. Natural aging of lake by nutrient enrichment of its water
39. T
40. Friends of the Arcata Marsh
41. 60, humboldt
42. Kerala and Sri lanka

## • SOLID WASTE

43. Biodegradable, recyclable, non-biodegradable
44. Recycling
45. Ahmed khan, 57, bangalore
46. 3
47. 6 rs per kg, 0.4 rs per kg
48. Three Mile Island and Chernobyl incidents
49. 500

## • GLOBAL WARMING

50. T
51. Long
52.  $-18^\circ\text{C}$ ,  $15^\circ\text{C}$
53.  $\text{CO}_2 > \text{CH}_4 > \text{CFC} > \text{N}_2\text{O}$
54. T
55. Dobson
56. Late august, early october
57. Troposphere
58. Stratosphere
59. UV
60. CFC
61. Cl
62. Antarctica
63. UV-B





- 64. Cornea
- 65. Cornea, UV-B
- 66. Montreal protocol, canada, 1987
- 67. 1989
- 68. Waterlogging and soil salinity
- 69. 40, 1
- 70. 1988
- 71. 33, 67
- 72. Jhum
- 73. North-east
- 74. Amrita Devi Bishnoi Wildlife Protection Award
- 75. 1731
- 76. Bishnoi
- 77. Garhwal himalayas
- 78. 1974
- 79. Joint Forest Management
- 80. 1980s, 1988

## • DigaQs

DigaQ. 1 – Electronic precipitator (Scrubber)

- A – Dirty air
- B – Water/lime spray
- C – Particulate matter
- D – Clean air

DigaQ. 2 – Effect of sewage discharge on some important characteristics of a river

- A – Sewage discharge    X – Concentration
- B – Dissolved oxygen    Y – Direction of flow
- C – BOD

DigaQ. 3 – Relative contribution of various greenhouse gases to total global warming

- A –  $\text{CO}_2$
- B –  $\text{CH}_4$
- C – CFCs
- D –  $\text{N}_2\text{O}$



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CAN CREATE MORE SUCH QUALITY  
CONTENT FOR YOU!

JUST ₹10-20 WILL BE APPRECIABLE! :)



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